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Use generative AI to recommend social places (restaurants bars, etc.) based on the user profile, locations, posts, search histories.

**Group 21**

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# Project Overview

## Introduction:

The project aims to develop an AI-powered recommendation system for social places such as restaurants, bars, cafes, etc. The system will leverage generative AI techniques to analyze user profiles, locations, posts, and search histories to provide personalized recommendations.

## Objectives:

- Integrate OpenAI model to give recommendations based on user profiles, locations, posts, and search histories.
- Create a database using elastic search of users with preferences stored as attributes.
- Use Yelp API and Google Maps API to get places based on user preferences.
- Design a user-friendly interface for users to interact with the recommendation system.
- Implement 'Plan my Day' feature to generate itinerary for an entire day.
- Design and implement an Analytics Dashboard Google Charts API.
- Implement Voice Assistant using Whisper (Open AI Library).

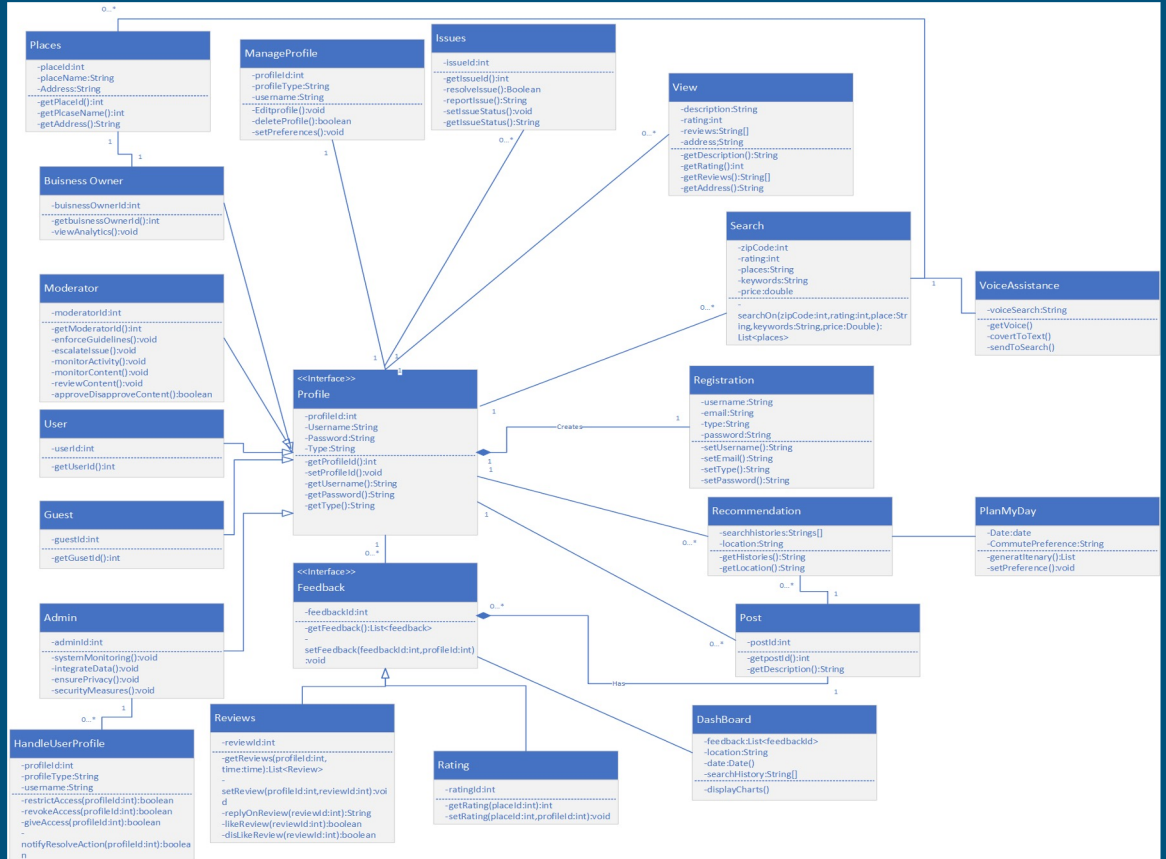
## Focus Areas: Phase 3

Factory  
Design  
Pattern

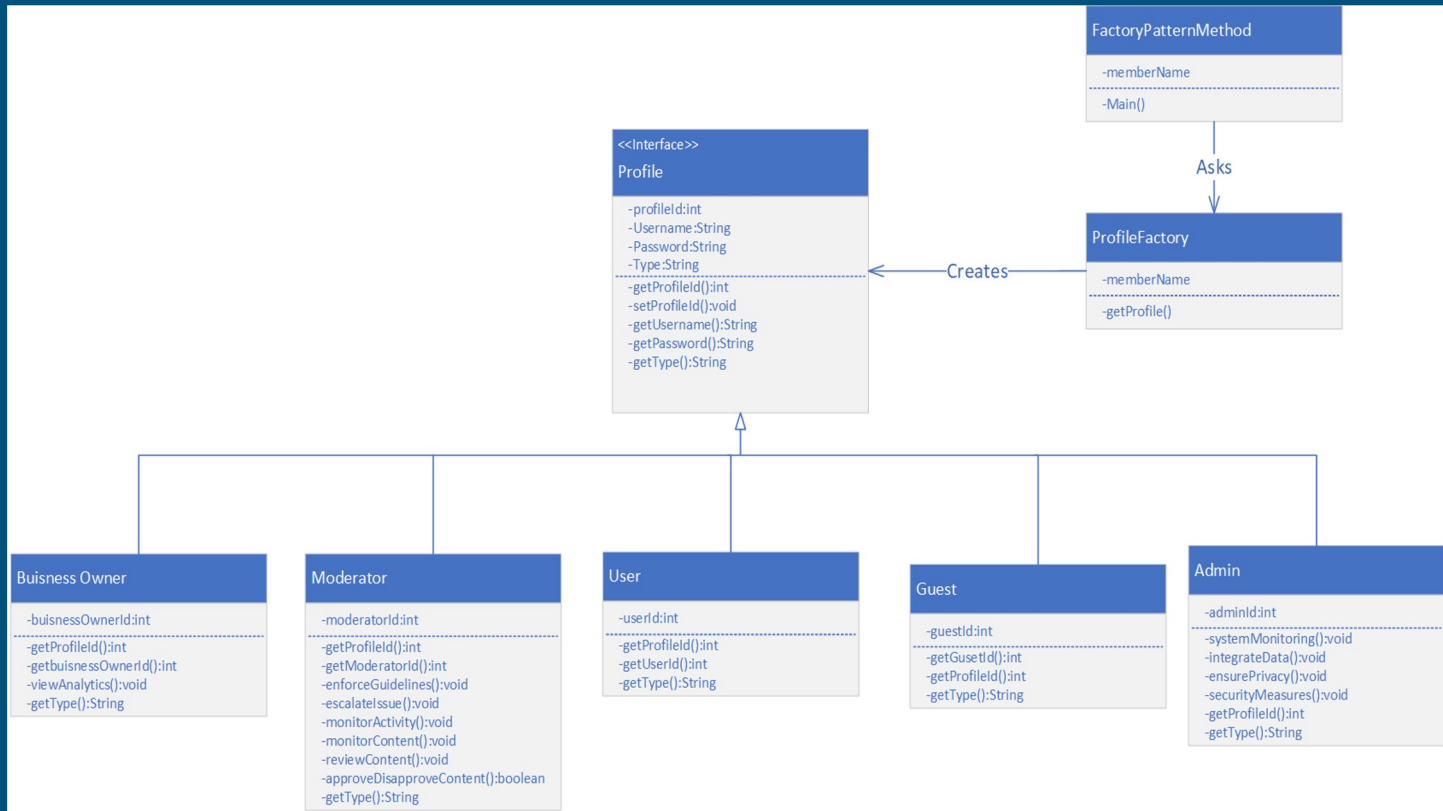
Strategy  
Design  
Pattern

Observer  
Design  
Pattern

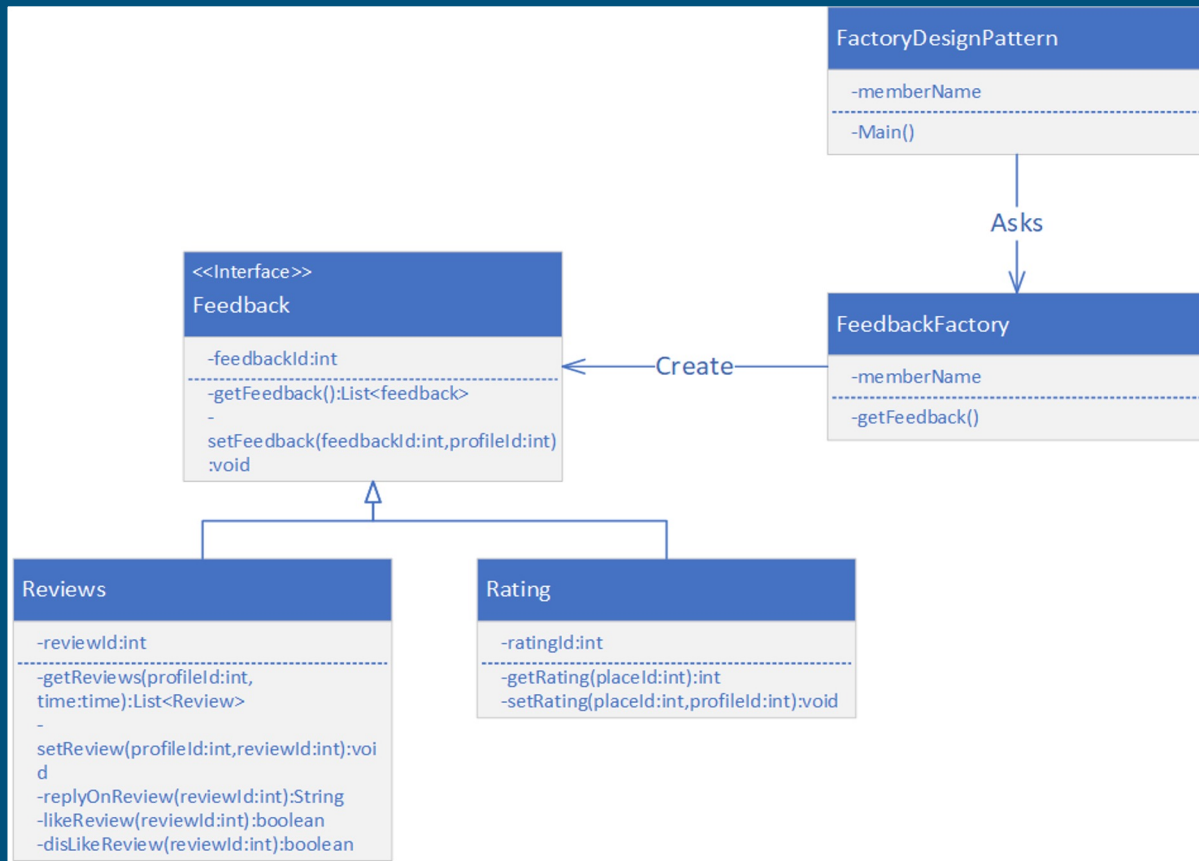
# UML Design Diagram



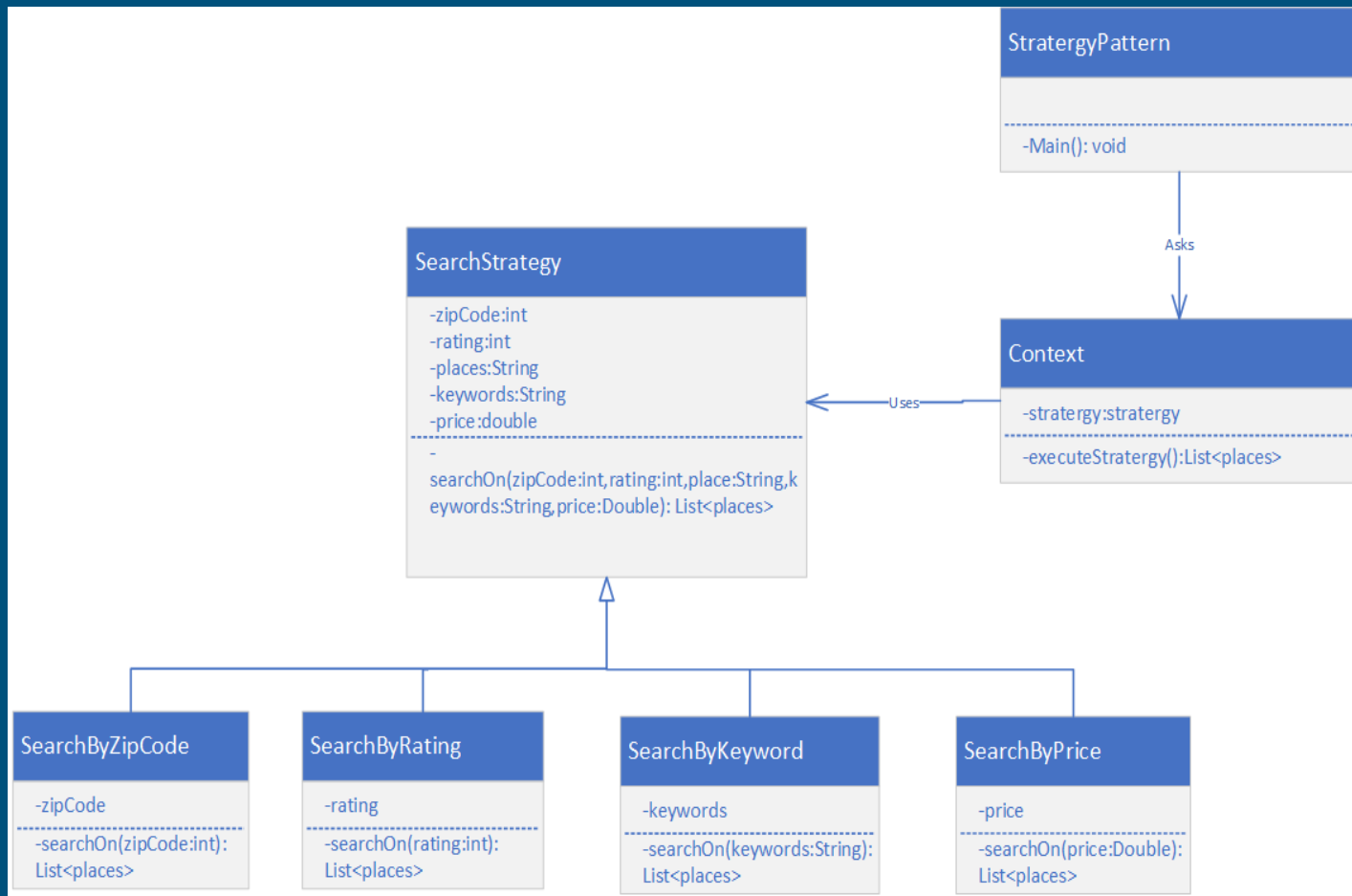
# Factory Design Pattern



# Factory Design Pattern

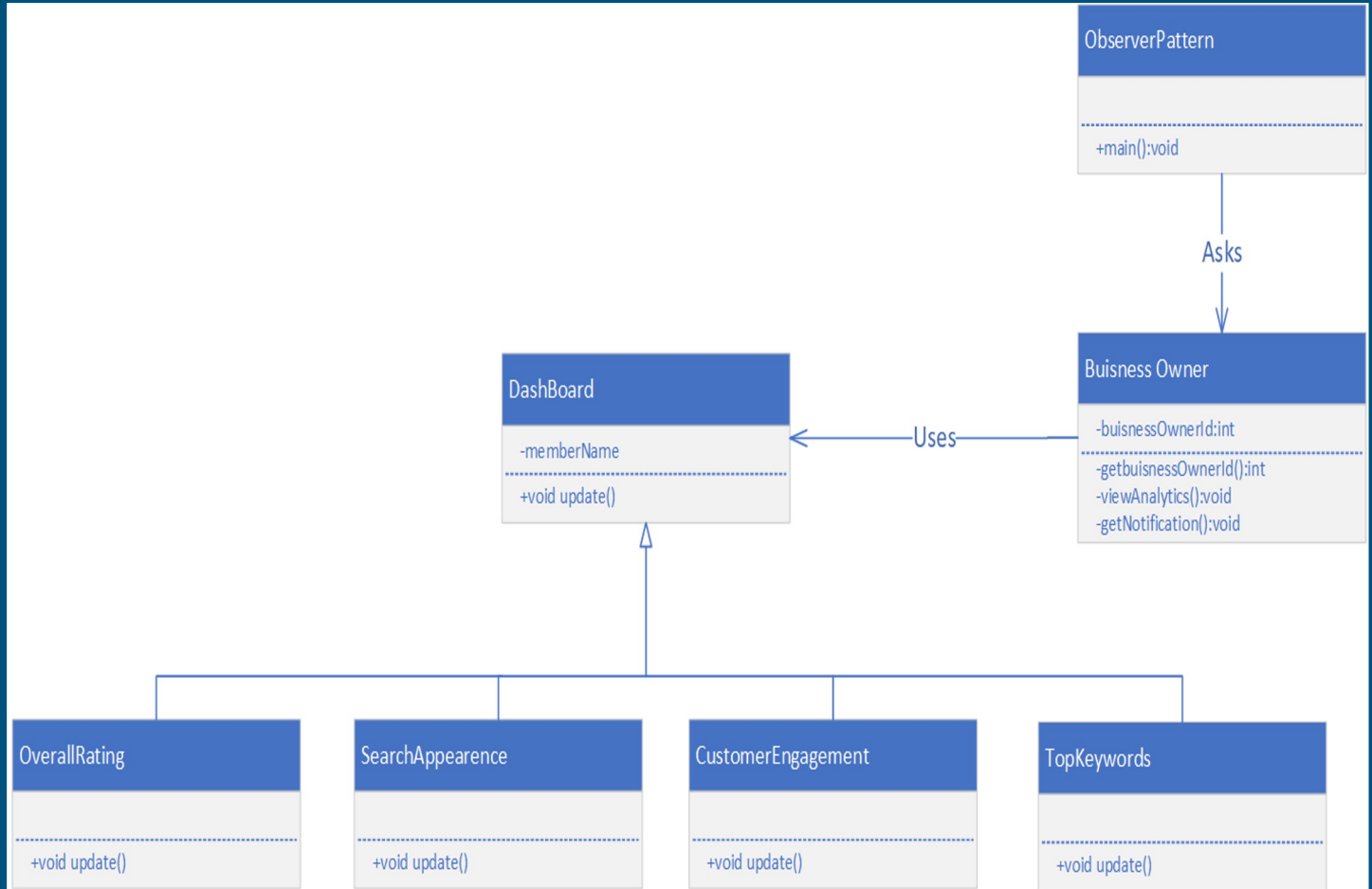


# Strategy Design Pattern

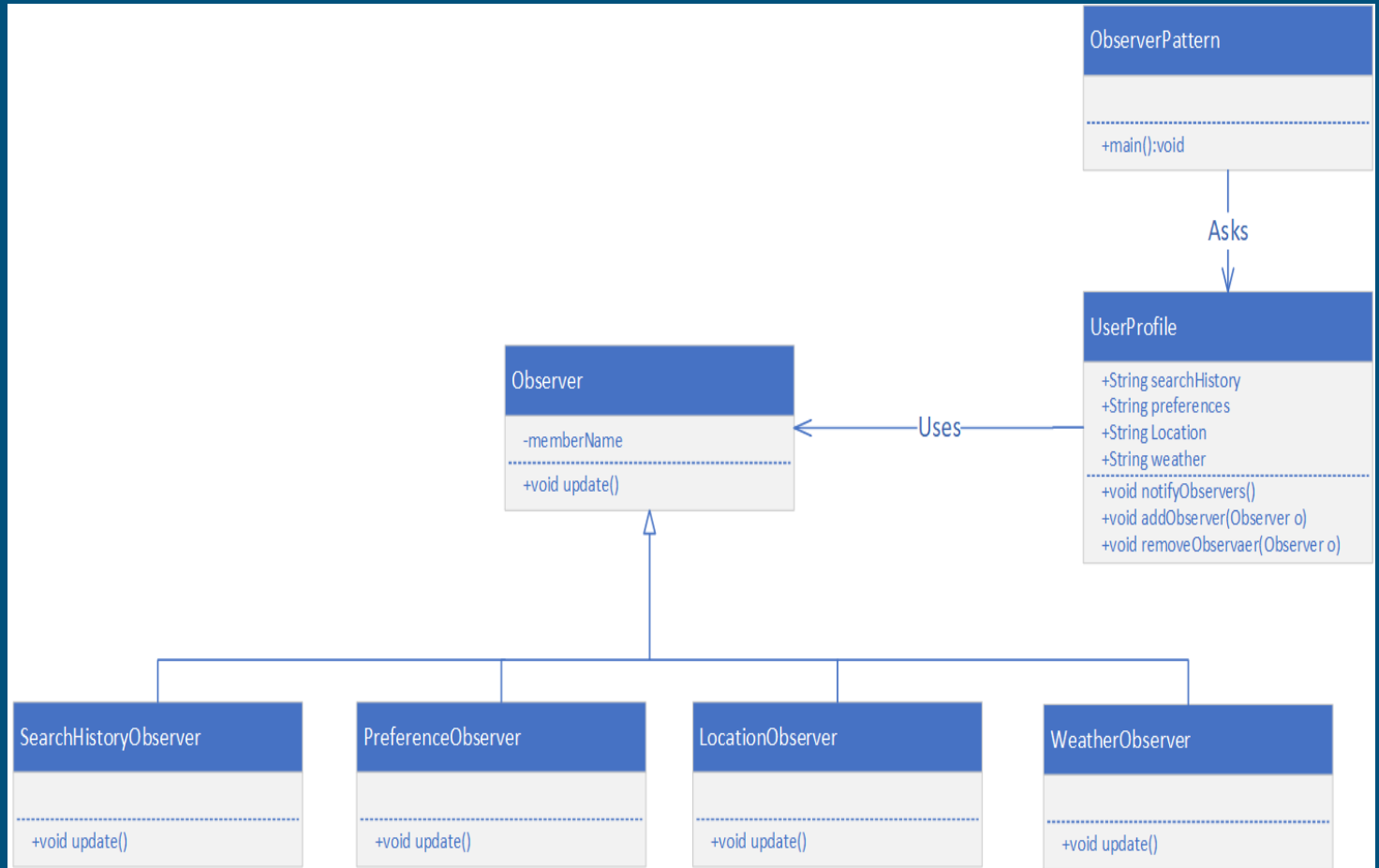




# Observer Design Pattern I



# Observer Design Pattern II



Thank you